MODIS IOT Weekly Report

Mission Operations Days: 2000/246 to 2000/252

September 1, 2000 20:00:00 GMT to September 8, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode MODIS is in Science Mode

Blackbody		A On; B Off	Nominal
Calibration Electronics		A On; B Off	Nominal
Control Processor		A On; B Off	Nominal
Door: Nadir		Unlatched, open	Nominal
Space View		Unlatched, open	Nominal
Solar Diffuser		Unlatched, closed	Nominal
FDDI Formatter		A On; B off	Nominal
FIFO Memory		1 & 2 On; 3 & 4 Off	Nominal
Format Processor		A On; B off	Nominal
PC FPA		A On	Nominal
Power Supply:1		On	Nominal
11 7	2	Off	Nominal
PV FPAs:	VIS	A On	Nominal
	NIR	A On	Nominal
	SMIR	A On	Nominal
	LWIR	A On	Nominal
Radiative Cooler:			
Outgas Heaters		Off	Nominal
LWIR FPA Heater		On	Nominal
SMIR FPA Heater		Off	Nominal
Scan Assembly		A On; B off	Nominal
SDSM		Off	Nominal
SRCA		Off	Nominal
Survival Heat	ers: PS	l Enabled	Nominal
	PS	2 Enabled	Nominal
Timing Generator		A On; B Off	Nominal
Flight Software		Rev BD + 2 patches	Nominal
Inhibit Ids Set		None	Nominal
TMONs enabled		66,67, 68	Nominal

This Week's Completed MODIS Activities:

Saturday, September 2, 2000

None

Sunday, September 3, 2000

None

Monday, September 4, 2000

None

Tuesday, September 5, 2000

None

Wednesday, September 6, 2000

None

Thursday, September 7, 2000

251/20:55:18 ATC OA15 - SDSM Open 251/22:34:11 ATC OA16 - SDSM Screened

Friday, September 8, 2000

252/13:37 Real-Time SMIR VDET/ITWK to 79/110

252/13:42:49 ATC SRCA 10W Spatial:

using Spectral Slit with EA sector rotation and delay stepping

(activity MOD_OA25_10W_SPAT_SLT_SECT_A)

252/15:21:42 ATC SRCA 1W Spatial:

using Along Scan Reticle with EA sector rotation and delay

stepping

(activity MOD_OA25_SRCA_1W_SPAT_SECT_A)

252/16:12 Real-Time SMIR VDET/ITWK to 110/226 (Nominal Operations)

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Saturday, September 9, 2000

None

Sunday, September 10, 2000

None

Monday, September 11, 2000

None

Tuesday, September 12, 2000

256/13:53 Real-Time SMIR VDET/ITWK to 79/110 256/14:38:44 ATC OA16 - SDSM Double Screened

256/16:17:38 ATC OA15 - SDSM Double Open

256/16:25 Real-Time SMIR VDET/ITWK to 110/226 (Nominal Operations)

The two day passes for the SD/SDSM activities fall across the central and western Atlantic. This should keep us clear of Africa, Hawaii and Alaska for Day and Night Ground Tracks for both the activities and the off-nominal VDET/ITWK values.

256/18:12 Real-Time Set new Gain Values for Band 14H (1-10), and Band 25 (1).

Wednesday, September 13, 2000 None

Thursday, September 14, 2000 None

Friday, September 15, 2000 None

Maneuvers:

The next roll maneuver to view the moon through the space view port is scheduled for September 18th (2000-262, 05:29:56 - 05:16:44 GMT).

MODIS Anomalies:

The formatter anomaly investigation has continued At approximately 8:00pm EDT August 19th, the formatter errors ceased occurring. There are currently 9 unique error addresses recorded by the Formatter, and a total error count of 2183. The A-Side Formatter is operating at approx. - 0.3C.

The LWIR CFPA temperature control has been restored. The temperature is holding within +/-0.02K of the set-point of 83K. The LWIR CFPA heater voltage is cycling with orbital variations of +/-0.5V around 6.0V.

MCST is establishing automatic long term trending and critical telemetry point monitoring to track the lasting results of the two recent anomaly resolutions.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches.

MODIS Telemetry Trends:

See MODIS Anomalies above.

Non-MODIS Significant Events:

None

Limited Life Item Status:

SRCA 10W Lamp #1: 173.5 of 500 hours SRCA 10W Lamp #2: 135.9 of 500 hours SRCA 10W Lamp #3: 145.1 of 500 hours SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 556.1 of 4000 hours SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1405 of 3022 Movements Nadir Aperture Door: 532 of 1316 Movements Space View Door: 437 of 1316 Movements